

Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 025A 1

Mile Post (ON)11: 155.897 mi

Bridge Key: H-17-BD Inspection Date: 12/15/2010 Sufficiency Rating: 67.5 FO

Rgn/Sectn 2E/2M:	24	Hist Signif 37:	3	UW Inspection Date 93B:	
Trans Region 2T:	01	Posting status 41:	A	SI Date 93C:	
County Code 3:	041	Service on/un 42A/B:	6 1	Bridge Cost 94:	\$ 394,088
EL PASO		Main Mat/Desgn 43A/B:	5 2	Roadway Cost 95:	\$ 39,409
Place Code 4:	00000	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 591,131
non-city		Main Spans Unit 45:	2	Year of Cost Estimate 97:	2006
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	1	Horiz Clr 47:	54.0 ft	Border Bridge Number 99:	
Level of Service 5C:	1	Max Span 48:	92.0 ft	Defense Highway 100:	1
Directional Suffix 5E:	0	Str Length 49:	188.7 ft	Parallel Structure 101:	R
Feature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
AIR FORCE ACADEMY RD 70		Width Curb to Curb 51:	54.0 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	58.0 ft	Highway System 104:	1
25 ML NBND		Deck Area:	10,946.9 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	0000
		Min Undrclr Ref 54A:	H	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	14.8 ft	Wearing Surface 108A:	6
H-17-BC		Min Lat Clrnce Ref R 55A:	H	Membrane 108B:	0
Location 9:		Min Lat Undrclr R 55B:	15.0 ft	Deck Protection 108C:	0
5.6 MI N OF JCT SH 83 ML		Min Lat Undrclr L 56:	12.99868731	Truck ADT 109:	12 %
Max Clr 10:	99.99	Deck 58:	6	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	7	Pier Protection 111:	#
IrsinvRout 13A:	000000025A	Sub 60:	7	NBIS Length 112:	Y
IrsSubRout No13B:	00	Channel/Protection 61:	N	Scour Critical 113:	N
Latitude 16:	39d 01' 34"	Culvert 62:	N	Scour Watch 113M:	0
Longitude 17:	104d 49' 59"	Optprtng Rtg Method 63:	5 No rating	Future ADT 114:	56,021
Range18A:	67 W	Operating Rating 64:	56.0	Year of Future ADT 115:	2027
Township18B:	67	Inv Rtnng Method 65:	5	CDOT Str Type 120A:	CPG
Section18C:	12	Inventory Rating 66:	15.0	CDOT Constr Type 120B:	0.
Detour Length 19:	0.0 mi	Asph/Fill Thick 66T:	004 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	3	Inspection Trip 122AA:	
Custodian 21:	1	Deck Geometry 68:	6	Scheduling Status 122B:	
Owner 22:	1	Undrclr Vert/Hor 69:	6	Maintenance Patrol 123:	8
Functional Class 26:	11	Posting 70:	5	Expansion Dev/Type124:	D
Year Built 27:	1958	Waterway Adequacy 7:	N	Brdg Rail Type/Mod 125A/B:	Y 0
Lanes on 28A:	3	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes Under 28B:	6	Type of Work 75A:	33	Str Rating Date 130:	7/6/1998
ADT 29:	37,100	Work Done By 75B:	1	Special Equip 133:	-1
Year of ADT 30:	2007	Length of Improvment 76:	188.6 ft	Vert Clr N/E 134A/B/C:	X 99.99 0.00
Design Load 31:	5	Insp Team Indicator 90B:	RED TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0.00
Apr Rdwy Width 32:	52.0 ft	Inspector Name 90C:	TATALASKIT	Vertical Clr Date:	10/12/2004
Median 33:	1	Frequency 91:	24 months	Weight Limit Color: 139:	0
Skew 34:	0.00 °	FC Frequency 92A:	-1	Str Billing Type:	U
Structure Flared 35:	0	UW Frequency 92B:	-1	Userkey 1 - System:	ONSYS
Sfty Rail 36a/b/c/d:	1 1 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indic:	
Rail ht36h:	35 "in"	FC Inspection Date 93A:			

Inspector Name: TATALASKIT

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
14/1	P Conc Deck/AC Ovly	(SF)	10,945	0 %	0	100 %	10,945	0 %	0	0 %	0	0 %	0
109/1	P/S Conc Open Girder	(LF)	1,890	99 %	1,871	1 %	19	0 %	0	0 %	0	0 %	0
205/1	R/Conc Column	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
215/1	R/Conc Abutment	(LF)	116	80 %	93	17 %	20	3 %	3	0 %	0	0 %	0
234/1	R/Conc Cap	(LF)	58	86 %	50	14 %	8	0 %	0	0 %	0	0 %	0
301/1	Pourable Joint Seal	(LF)	170	82 %	140	11 %	18	7 %	12	0 %	0	0 %	0
311/1	Moveable Bearing	(EA)	20	50 %	10	50 %	10	0 %	0	0 %	0	0 %	0
313/1	Fixed Bearing	(EA)	20	50 %	10	50 %	10	0 %	0	0 %	0	0 %	0
321/1	R/Conc Approach Slab	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
325/1	Slope Prot/Berms	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/1	Bridge Wingwalls	(EA)	4	100 %	4	0 %	0	0 %	0	0 %	0	0 %	0
334/1	Metal Rail Coated	(LF)	378	100 %	378	0 %	0	0 %	0	0 %	0	0 %	0
338/1	Conc Curbs/SW	(LF)	378	21 %	78	79 %	300	0 %	0	0 %	0	0 %	0
342/1	Sign Attachment	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
359/1	Soffit Smart Flag	(EA)	1	0 %	0	0 %	0	0 %	0	100 %	1	0 %	0
362/1	Traf Impact SmFlag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
14/1	P Conc Deck/AC Ovly	(3 - 4) inches of newer asphalt overlay with waterproofing membrane. Worn in wheel lines. Tar sealed along longit. jts.
109/1	P/S Conc Open Girder	Girders 1G, 1H, 1I, & 1J patched in 2008; do not appear to have been properly prepared - i.e. no apparent saw-cut scoring. Diaphragm #2 in Bay 1F has a chunk missing at the bottom next to Girder 1G with rebar exposed. Previous dings from high loads reported (See Element 362)
205/1	R/Conc Column	Few small areas of exposed rebar from insufficient concrete cover. Waterstained. Some rock pockets at base of Column 2B.
215/1	R/Conc Abutment	Few vertical cracks with efflor. in backwalls & caps. Light scale, with some efflorescence at ends of both. Waterstained. Right end of A1 has 14 inches of dirt built up on bearing seat. Delam./spalls with exposed rebar in Abutment 1 below Bay 1H, and in Abutment 3 backwall at both ends due to insuff. concrete cover.

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234/1	R/Conc Cap	Couple spots of exposed forming due to insufficient concrete cover. Spots of light scale at both ends. Couple shallow delams and shrinkage cracks. Waterstained.
301/1	Pourable Joint Seal	Newer pourable seal with polymer mortar end dams. Losing adhesion from loose backer rod in MLs, and partially failed in MLs 2 & 3 (PHOTO 12/10). Sealed saw cuts at abutments between backwall and deck. Looks good in roadway, but have leaked in the past. Open in curb areas. A few cracks in MLs are tar sealed at Abut. 1.
311/1	Moveable Bearing	At Pier 2 for Span 1 and Span 2 girders Over 1 ft. of dirt and asphalt built up in Bays F - G at Pier 2 from failed pourable seal. (1/09 & 12/10 PHOTOS) Light R1 to R1 corrosion on some rockers & plates.
313/1	Fixed Bearing	At abutments. Light R1 to R1 corrosion on some. Bearing 1J at Abutment 1 is partially buried with sand.
321/1	R/Conc Approach Slab	Covered with newer asphalt overlay, about the same condition as deck.
325/1	Slope Prot/Berms	Steep sandy slopes at abutments have minor erosion at both ends of both.
326/1	Bridge Wingwalls	U-type abutments wings. Light diagonal crack with seepage at #3 Left. Little light scale on #1 Left., #3 Left., and #3 Right.
334/1	Metal Rail Coated	Galvanized Type Y rail, new about 2007.
338/1	Conc Curbs/SW	Light to moderate scale on top and face of right curb and most of left curb, spots of exposed reinforcement. Spalling on backside of both curbs above Span 1 & 2. Left side over span 2 Delam.
342/1	Sign Attachment	Attached to web and top flange of Girder 1A. Looks secure, see 1-2009 PHOTO.
359/1	Soffit Smart Flag	Many short, light trans., and some diagonal cracks with moderate to heavy efflorescence and some rust stains and light scale, mostly in Span 1, see 2009 sketch. Spots of delamination. 35% Deck Contamination.
362/1	Traf Impact SmFlag	IMP ???/??/??; First INSP 11/16/88; REP ???/??/08: Minor spalls at each of the following girders: 1A, 1G, 1H, 1I, 1J, 2E, 2F, and 2J. Some stirrups were exposed at Girder 1I and 1J, and one prestressing strand was exposed at Girder 1I, but are now patched. See PHOTOS.

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Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
353.08	Br Dk Rpr	10/12/2004	-1	2012	1500

Continue to seal cracks in asphalt surface.

357.01	Bearings	10/30/2002	-1	2012	350
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Remove dirt & debris from top of pier cap at Girders (F - G) and around Bearing J at Abutment 1.

364.01	Exp Jts	12/15/2010		2012	1000
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Repair pourable seal at Pier 2 that is partially failed in MLs #2 & #3. See 12/10 PHOTO.

Bridge Notes

Utilities: 2 Inch diameter metal conduit attached to web of Girder A;
 2 Inch diameter metal conduit attached at right edge of deck.

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Inspection Notes

Time :-> 10:30 Temperature :-> 56 Degrees F. Weather :-(Cloudy

Scope:

NBI: Element: Underwater: Fracture Critical: Other: Type: Regular NBI

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 12/15/2010

Inspector

Inspector